

PATENT APPLICATION SERIAL NO. _____

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE
FEE RECORD SHEET

11/26/2001 EMAILE1 00000025 193790 09989820

01 FC:101 740.00 CH

PTO-1556
(5/87)

11-23-01

11/20/01
U.S.
TO**UTILITY PATENT APPLICATION TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No.
TN247Total Pages in this Submission
31**TO THE DIRECTOR FOR PATENTS**Box Patent Application
Washington, D.C. 2023111002 U.S. PTO
09/989820

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an invention entitled:

ALTERNATIVE TO THROUGH-HOLE-PLATING IN A PRINTED CIRCUIT BOARD

and invented by:

Robert FIX; Daniel A. JOCHYM

If a CONTINUATION APPLICATION, check appropriate box and supply the requisite information:

 Continuation Divisional Continuation-in-part (CIP) of prior application No.: _____

Which is a:

 Continuation Divisional Continuation-in-part (CIP) of prior application No.: _____

Which is a:

 Continuation Divisional Continuation-in-part (CIP) of prior application No.: _____

Enclosed are:

APPLICATION ELEMENTS1. Filing Fee as calculated and transmitted as described below2. Specification having 12 pages and including the following:

- a. Descriptive Title of the Invention
- b. Cross References to Related Applications (*if applicable*)
- c. Statement Regarding Federally-sponsored Research/Development (*if applicable*)
- d. Reference to Microfiche Appendix (*if applicable*)
- e. Background of the Invention
- f. Brief Summary of the Invention
- g. Brief Description of the Drawings (*if applicable*)
- h. Detailed Description
- i. Claim(s) as Classified Below
- j. Abstract of Disclosure

UTILITY PATENT APPLICATION TRANSMITTAL

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Docket No.
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31**Application Elements (Continued)**

3. Drawing(s) (*when necessary as prescribed by 35 USC 113*)
 a. Formal Number of Sheets _____
 b. Informal Number of Sheets 10

4. Oath or Declaration
 a. New executed (*original or copy*) Unexecuted
 b. Copy from a prior application (37 CFR 1.63(d)) (*for continuation/divisional applications only*)
 c. With Power of Attorney Without Power of Attorney
 d. **DELETION OF INVENTOR(S)**
 Signed statement attached deleting inventor(s) named in the prior application,
 see 37 C.F.R. 1.63(d)(2) and 1.33(b)

5. Incorporation By Reference (*usable if Box 4b is checked*)
 The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied
 under Box 4b, is considered as being part of the disclosure of the accompanying application and is
 hereby incorporated by reference herein.

6. Computer Program in Microfiche (*Appendix*)

7. Nucleotide and/or Amino Acid Sequence Submission (*if applicable, all must be included*)
 a. Paper Copy
 b. Computer Readable Copy (*identical to computer copy*)
 c. Statement Verifying Identical Paper and Computer Readable Copy

Accompanying Application Parts

8. Assignment Papers (*cover sheet & document(s)*)
 9. 37 CFR 3.73(b) Statement (*when there is an assignee*)
 10. English Translation Document (*if applicable*)
 11. Information Disclosure Statement/PTO-1449 Copies of IDS Citations
 12. Preliminary Amendment
 13. Return Receipt Postcard (MPEP 503) (*Should be specifically itemized*)
 14. Certified copy of Priority Document(s) (*if foreign priority is claimed*)
 15. Certificate of Mailing

 First Class Express Mail (*Specify Label No.:*) ET 692 310 617 US

UTILITY PATENT APPLICATION TRANSMITTAL

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Docket No.
TN247Total Pages in this Submission
31**Accompanying Application Parts (Continued)**

16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.

17. Additional Enclosures (please identify below):

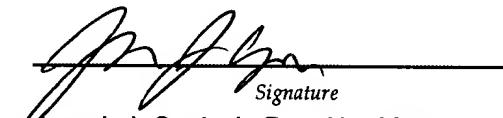
Fee Calculation and Transmittal**CLAIMS AS FILED**

For	#Filed	#Allowed	#Extra	Rate	Fee
Total Claims	15	- 20 =	0	\$18	\$0.00
Indep. Claims	3	- 3 =	0	\$84	\$0.00
Multiple Dependent Claims (check if applicable)	<input type="checkbox"/>				\$0.00
				BASIC FEE	\$740.00
OTHER FEE (specify purpose) _____					\$0.00
				TOTAL FILING FEE	\$740.00

A check in the amount of _____ to cover the filing fee is enclosed.

The Director is hereby authorized to charge and credit Deposit Account No. 19-3790 as described below. A duplicate copy of this sheet is enclosed.

- Charge the amount of \$740.00 as filing fee.
- Credit any overpayment.
- Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.
- Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b).


 Signature
 Joseph J. Opalach, Reg. No. 36,229
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Dated: November 20, 2001

CERTIFICATE OF MAILING "EXPRESS MAIL" (37 CFR 1.10)

Applicant(s): Robert Fix et al.

DOCKET NO.
TN246

Serial No.
To be assigned

Filing Date
Herewith - Nov. 20, 2001

Examiner
N/A

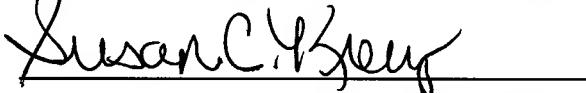
Group Art Unit
N/A

Invention: **AN ALTERNATIVE TO THROUGH-HOLE-PLATING IN A PRINTED CIRCUIT BOARD**

I hereby certify that this **utility patent application and its indicated enclosures** is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Director for Patents, Washington, DC 20231 on November 20, 2001.

Susan C. Kreuz

(Type or Printed Name of Person Mailing Correspondence)



(Signature of Person Mailing Correspondence)

ET 692 310 617 US

("Express Mail" Mailing Label Number)

U.S. POSTAL SERVICE
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NONPUBLICATION REQUEST UNDER 35 U.S.C. 122(b)(2)(B)(I)

First Named Inventor: **Daniel A. Jochym et al.**

Title: **AN ALTERNATIVE TO THROUGH-HOLE-PLATING IN A PRINTED CIRCUIT BOARD**

Attorney Docket No. **TN247**

I hereby certify that the invention disclosed in the attached application **has not and will not be** the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. 122(b).

Date: November 20, 2001


Joseph J. Opalach
Registration No. 36,229

This request must be signed in compliance with 37 C.F.R. 1.33(b) and submitted with the application **upon filing**.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(II)).**